Annual Report 1990

PRINCE EDWARD ISLAND DEPARTMENT OF AGRICULTURE

Prince Edward Island
Department of Agriculture
Annual Report

For the fiscal year ending March 31, 1990
and Activities Report for the year ending
December 31, 1990

The mission of the Department of Agriculture is to promote the sustainable growth and development of the agri-food industry.

P.E.I.
Agriculture

Agriculture in 1990

Prince Edward Island experienced a cold, wet spring which hampered early development of many crops. Crops planted early, including some potato varieties, were hardest hit by these unusual weather conditions. A mild and late fall permitted some crops to recover much of their earlier losses. In addition to potatoes, barley yields were seriously affected by the weather. A comparatively dry August combined with excessive rains in the latter part of the growing season to again disturb normal development in many crops.

Following two consecutive years with strong potato prices, the 1990 crop didn't measure up to the previous year's successes. Grain production reached near-normal yields although low global prices combined with increased production costs to further diminish producer's hopes for profitability.

A freak mid-summer storm wiped out a significant portion of this year's tobacco crop. Tobacco prices were only slightly higher than in 1989 resulting in an overall reduction in tobacco crop receipts.

Lower grain prices contributed to a satisfactory and profitable year for many Island livestock producers. Beef profits were solid although prices experienced some wide fluctuations during the year. The effects of low-cost grain has helped to keep this sector profitable. Pork production remained solid, down only slightly from 1989 amid low market prices. Production incentives and low-cost feed grains helped keep this sector profitable. Consumption of white meats continues to rise. Island chicken production continues to post phenomenal growth. Relatively low feed prices have helped profits in this sector as well.

Potatoes

The weather-related problems of the 1990 growing season resulted in a substantial decline in yield this crop year but an offsetting increase in acreage helped stabilize the overall production above 18 million hundredweights. The 1990 crop area reached a record 75,000 acres. Following two consecutive years of strong prices, a return to normal or below-normal prices greeted producers. The year was highlighted by the announcements of two major industry expansions, plant construction by McCain Foods at Carleton for completion in very early 1991, and the plant expansion by Cavendish Farms in New Annan. The announcement of expanded processing facilities was a major factor behind the strong increase experienced in potato area in 1990. As the year drew to a close, producers faced the devastating news that the PVYn virus had been detected on a number of farms, affecting the Island's reputation and status in seed markets.

Field Crops

The cold, wet spring was identified as the chief contributor to reduced yields in the 1990 Island barley crop. Other major grains, including oats and wheat, were reportedly immune to the climatic problems evidenced. Prices again remained depressed due to global oversupply, the failure of the GATT negotiations, and political unrest in some trading partner countries. Exports of quality forage from Prince Edward Island continue to increase and strengthen. Acreage has been remaining stable at about 139,000 acres.

Berries

Strawberry yields and quality were favorable in 1990, although prices which were average at the beginning of the season fell lower in their usual pattern as the season unfolded. The blueberry crop established a new record this year with more than twice as much production as 1989. The size of this year's berries was excellent. The raspberry crop enjoyed an average season.

Vegetables

The hot, dry summer was blamed for poor crop production of many vegetables. Heat damaged broccoli and cauliflower crops, but cauliflower also suffered damage from the cold at the outset of the summer. Not all the vegetable crops were adversely affected. Lettuce, beets, parsnips, sweet corn, cucumbers and squash reported good crops. Carrot crops were mixed, with some fields reporting a good crop. The rutabaga crop was of excellent quality although sizes were smaller than normal due to adverse weather. Brussel sprouts and cabbage were unfavourably affected by insect infestation. Despite this setback, both crops had a favourable growing season.

Tobacco

A significant part of the 1990 tobacco crop was abandoned due to a freak storm during the growing season. Total acreage was just in excess of 1600 acres with harvested production of just more than 2.5 million pounds. The negotiated price contract barely allowed for the annual cost of living increase.

Dry Beans

Dry beans is a relatively new commercial crop to Prince Edward Island, but a crop that is rapidly increasing in popularity. For 1990, producers planted in excess of 1200 acres of a crop that looked excellent and promising right up to harvest time. Again the wet weather at harvest forced producers to leave one quarter of their acreage in the fields. A surplus of beans in Ontario and northern US has held Island prices lower. Prince Edward Island's main varieties of beans include pinto, yellow-eyed, cranberry, Dutch brown, black turtle, and light and dark red kidney beans.

Fur

The number of fox ranchers and foxes has declined in light of the poor profits being experienced in the sector.

After the peak in prices in 1986, the fox industry has declined. Prince Edward Island boasts more than 150 fox ranches. Mink farming is a small but important industry; approximately fifteen producers pelt mink valued in excess of a half million dollars per year. Mink prices, like fox, peaked in 1986, but haven't fallen as sharply.

Poultry and Eggs

Consumer preference for white meat, especially chicken and turkey, continues to dominate the North American meat industry. Prince Edward Island chicken production rose in 1990, continuing the trend which began in the early to mid-1980's. Canadian egg consumption remains steady. Three new poultry broiler facilities were established in 1990.

Swine

Island pork production dropped by 6 percent in 1990 as prices slipped to relatively low levels. Despite the drop in prices, the mid-summer 1990 provided a price rally which offered returns in excess of $200 per 100 kilograms, although these prices did not last long. The average price for 1990 was $62.00 per hundredweight.

Beef

Provincial beef production rose by 7 percent during 1990. Beef production is a major sector, worth approximately $30 million in 1990. Producers enjoyed high prices peaking late in the fall.

Sheep and Lambs

Production of sheep and lambs on Prince Edward Island continues to decline. At July 1, 1990, the number of sheep and lambs declined to only 5000 animals.

Dairy

Dairy production remained relatively stable during the most recent milk marketing year, 1989-90. Industrial Production was down about 1 per cent, while fluid consumption was about even. Producers exceeded their market sharing quota by 1.88 per cent.

Farm Net Income

Farm Cash Receipts for 1990 reached $241 million, down from the record $256 million achieved in 1989, but the second highest level on record. Crop receipts were down 12 percent while livestock receipts were 5 percent higher. Expenses totalled $186 million, which includes depreciation. Wages, machinery and feed are the three major expenses, amounting to almost 50 percent of total farm cash expenses. Farm net income totalled more than $60 million, down 15 per cent from 1989.

MINISTRY OF AGRICULTURE ACTS

The Department is responsible for the administration of the following Acts:

Agricultural Chemicals Act
Agricultural Development Corporation Act
Agricultural Standards Act
Agricultural Products Marketing Act
Agrologists Act
Apiary Inspection Act
Artificial Insemination Act
Bang's Disease Eradication Act
Crop Insurance Act
Dairy Industry Act
Dairy Producers Act
Dog Act
Farm Implement Act
Federal Dairying Company Act
Fences and Detention of Stray Livestock Act
Field-Root Seeds Zoning Act
Grain Elevators Act
Livestock Branding or Tattooing Act
Livestock Community Auction Sales Act
Marketing Act
Mink Protection Act
Natural Products Marketing Act
Pesticides Control Act
Plant Disease Eradication Act
Potato Crop Mortgage Act
Potato Production Act
Poultry and Poultry Products Act
Racehorse Inspection Act
Veterinary Assistance Act
Veterinary Profession Act
Women's Institute Act

Prince Edward Island Department of Agriculture
Charlottetown, 1990

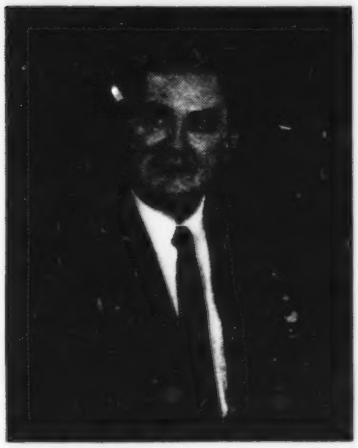
To the Honourable Marion L. Reid
Lieutenant Governor of Prince Edward Island

Madame:

I have the honour to submit herewith the Annual Report of the Department of Agriculture comprised of financial statements for the period April 1, 1989 to March 31, 1990 and activities for the calendar year, 1990.

I have the honour to be, Madame,
Your obedient servant,

Keith Milligan
Minister of Agriculture



To The Honourable Keith Milligan
Minister of Agriculture

Sir:

I am pleased to submit herewith a report of the activities of the Department of Agriculture for the year ended December 31, 1990, and the fiscal report for the fiscal year ended March 31, 1990.

The Prince Edward Island agri-food industry has continued to grow and develop, and enhance its contribution to the economy despite an uncertain and unstable economic environment and a host of new challenges being faced as we begin the last decade of the 20th Century.

The Prince Edward Island Department of Agriculture, in cooperation with the industry, is generating innovative strategies to achieve sustainable growth and development of the Prince Edward Island agri-food industry.

To meet the critical challenge of eradicating PVYn, the Department---in cooperation with Agriculture Canada and the potato industry---will be initiating strategies to deal with the eradication of PVYn and the restoration of the high quality reputation of Prince Edward Island potatoes.

The challenge of improving the agri-food sector's response to the needs of the marketplace will be met by initiating strategies to strengthen the marketability of agri-food products and adding value to food production through quality enhancement and quality assurance.

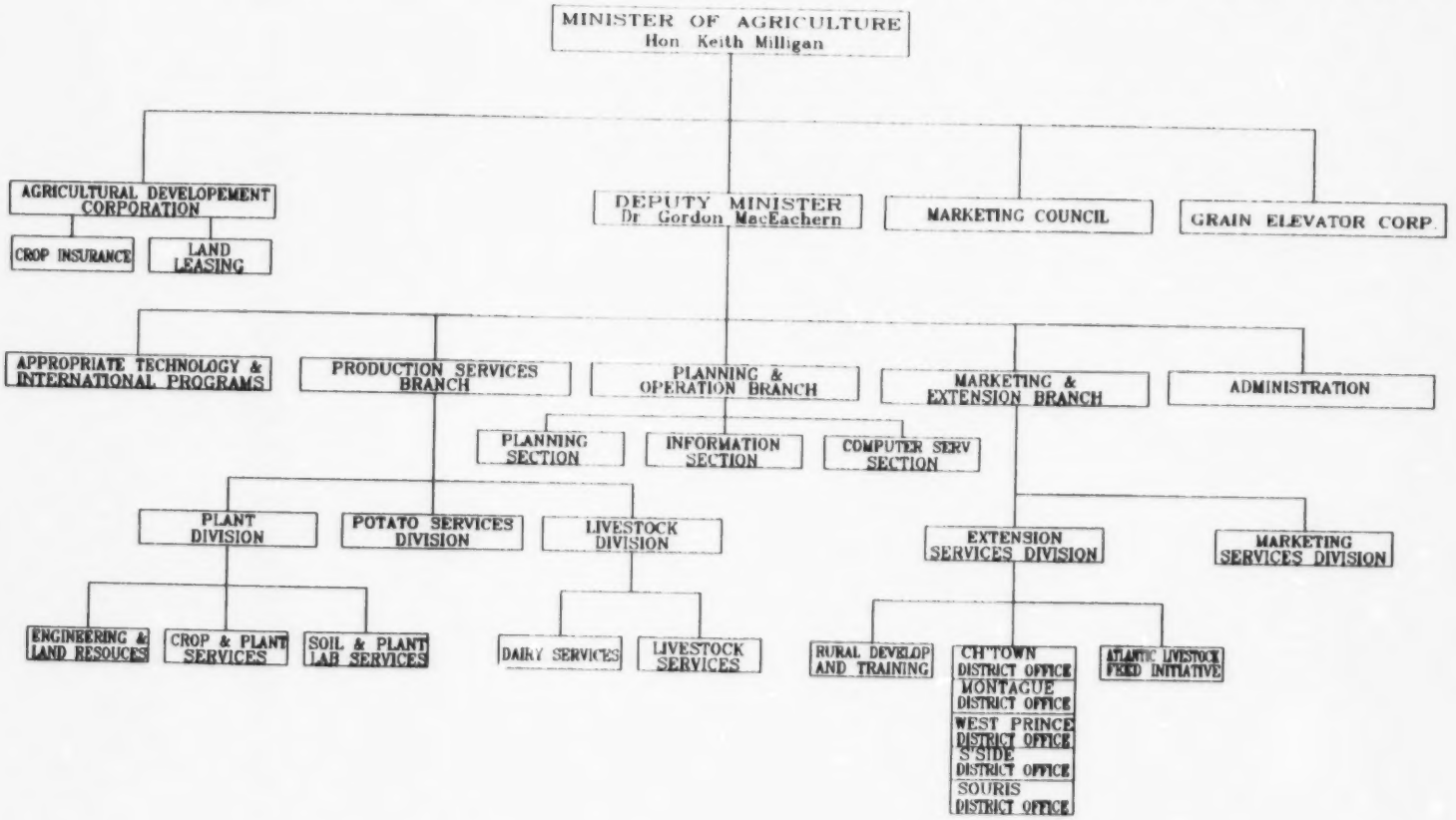
To better address and meet the competitive forces in the marketplace, the Department will be taking steps to promote farm management improvement and new safety net programs for the crops sector.

Common to all our efforts is our strong commitment to communicate growth and development challenges facing Prince Edward Island's agri-food industry, and to strengthen the partnership between government and Island agriculture in order to successfully exploit market opportunities to fully utilize Prince Edward Island's abundant agricultural resources.

Respectfully submitted,

Dr. Gordon A. MacEachern
Deputy Minister

Prince Edward Island DEPARTMENT of AGRICULTURE



P.E.I. Agriculture

Introduction

The format of the 1990 annual report has been revised to highlight the strategic objectives of the Department of Agriculture. In previous years, the report had been organized around the activies of individual Branches within the Department; this year, the report focuses on the contribution of each branch to the overall mission and objectives.

The mission and objectives of the Department are being continually reviewed to anticipate and reflect changes taking place within the agri-food industry. For 1990, the Department identified and pursued the strategic objectives in the following areas:

- a global market orientation;
- food quality and safety;
- competitiveness;
- education and training;
- financial stability;
- environmental sustainability; and
- industry coordination.

The objectives are linked to the Department's mission to achieve sustainable growth and development of the agri-food industry.

It is hoped the format of the 1990 annual report will provide a better understanding and accountability of the Department's priorities, objectives and activities.

Competitiveness

The production of Prince Edward Island food and agriculture commodities continues to grow and diversify. With the globalization of trade, the implementation of the Canada-U.S. Free Trade Agreement and GATT Negotiations which may reduce barriers to agricultural trade and the subsidization of agriculture by governments, it is important that Prince Edward Island agriculture remain competitive on a national and international scale. In 1990, there were significant gains in strengthening the province's competitive advantage. Some of the programs and activities which were implemented to improve the competitive position of Prince Edward Island agriculture are listed below.

- Through the Atlantic Livestock Feed Initiative, the quality and quantity of livestock and poultry feed was improved with increased production and better utilization. Protein crops are becoming increasingly important; in particular, lupin production increased from 100 acres in 1989 to around 4500 in 1990 and soybean production was steady at between 4500 and 5000 acres. Increased production of protein crops will help enable the livestock industry to lower costs of production and become more profitable in the marketplace.
- The Cereal Advisory Program sponsored by the Prince Edward Island Soil and Crop Improvement Association completed its third year of operation. Involved in the program were 96 cereal, soybean and 17 alfalfa producers growing approximately 10,000 acres of crops. The Association also conducted a province-wide service to grain growers for improved management of cereal crops with approximately 100 plot trials and demonstrations of cereal, forage and soybean varieties and management techniques.
- In conjunction with Agriculture Canada and the Potato Board, selected new potato varieties were tested and promoted. Management profiles are being developed for promising varieties to encourage rapid acceptance for commercial production.
- Several on-farm pilot projects aimed at the control of the European corn borer were completed.
- Financial support of close to $25,000 and extension services were provided to fruit, vegetable and honey producers. Crop scouting programs were conducted for strawberry and vegetable producers, as well as, bee inspection. Acreage of dry beans increased from 700 in 1989 to over 1200 in 1990, and on-farm trials in production techniques were carried out to support producers of this relatively new crop to the province.
- On-farm advice was provided to tobacco growers and a grant of $3000 supported the Maritime Regional Tobacco Research Program. A co-operative trial was also carried out with the Delhi Research Station to evaluate controls for the disease Sclerotinia.

- The Department provides a range of laboratory and disinfection services to the industry in order to reduce production costs, improve productivity, maintain quality and enhance marketability of products. These include soil testing, custom fertility recommendations, plant tissue testing, feed analysis, plant disease diagnosis and potato disinfection. The addition of a C-H-N elemental analyzer enabled the lab to analyze feed protein samples in less time and provide producers with more accurate information with which they can lower production costs. Plant tissue results are now completed in 2 days. A permanent potato disinfection facility was established in the Charlottetown area to improve the level of service. Disinfection services for producers delivering to the new McCain's processing plant were established.
- To support producer's efforts in achieving the best pH soil levels for their particular crops, over $550,000 was provided to 2000 producers under the Limestone Assistance Program. Mussel mud became eligible under this program in 1990.
- Over 7000 individual soil samples were analyzed by the soil testing lab. Six tests are carried out for each sample.
- Promotion of potato quality improvements is vital for the province. The potato crop scouting service increased significantly from 157 acres in 1989 to more than 1100 acres in 1990.
- Over $125,000, or 50 percent of total costs, was allocated to potato cull burial, and the bacterial ring rot clean-up program.
- Livestock production testing services are highly utilized by producers. Through these services, information is provided through which production costs can be lowered and the efficiency and competitiveness of the farm business improved.

Livestock Production Testing

Operation	Number of Farms
Dairy:	
- milk recording (ADLIC) official test	156
- owner sample	77
Beef:	
- record of performance	116
- Weaning weight	312
Swine:	
- record of performance	17
- swine productivity	39
Sheep:	
- record of performance	27

- Product quality control is vital for dairy producers. To maintain and enhance milk quality, 576 farms were inspected, involving more than 2000 farm calls. All dairy processing plants were also licensed and inspected. A specialized service to dairy producers, consisting of milking equipment and procedure analysis, is also provided. This service helps producers to produce milk more efficiently, to raise productivity per cow and the quality of milk delivered for processing.

Quality Improvement

Part of the challenge of being competitive in today's markets is the improvement of quality of products produced and marketed from Prince Edward Island farms. The Department of Agriculture has a number of programs which contribute to the quality improvement. Some of these are listed below.

Product Quality Control

Service	Number of Samples
Milk composition Testing:	
- milk recording	77,518
- payment	22,537
Bacterial contamination	
- raw and processed milk	27,339
Somatic cell count	
- raw milk	89,917
Adulteration and inhibitors contamination	
- adulteration	11,500
- inhibitors	15,609

- In cooperation with Agriculture Canada, inspection services were provided to 10 egg grading stations and 2 poultry processing plants.
- Inspection services are provided under the provincial Agricultural Products Standards Act to ensure that all potatoes being retailed in Prince Edward Island are of high quality and conform to proper grade standards.
- Under the Provincial Meat Inspection Program, payments of $100,000 were made for veterinary inspection of beef, swine and lamb carcasses at 16 local abattoirs. This inspection guarantees quality meats to consumers and enables producers and abattoirs to sell their products in Prince Edward Island.
- To meet consumer needs, a project to determine the feasibility of producing eggs with low cholesterol content was initiated in cooperation with the Prince Edward Island Egg Producers and Allied Industries Association. These efforts are continuing with research being conducted at the Nova Scotia Agriculture College.
- A microwave digester apparatus to aid in the testing of trace elements was added to the soils and feed lab at a cost of $19,000. In addition, the Grain Elevators Corporation installed an on-site livestock feed analyzer at a cost of $28,000, provided under ALFI. These services help farmers produce more efficiently by lowering costs of inputs and increasing yields of crops and livestock products.
- A range of programs are made available to encourage the use of genetically superior breeding stock. They include:

Cattle Artificial Breeding	$200,000	- provided to the Prince Edward Island Artificial Breeders' Association
Beef Bull Bonus	$51,000	- provided for 98 bulls
Beef Bull Test Station Support	$6,000	- 32 bulls on test
Ram Bonus	$2,000	- provided for 16 rams
Boar and Gilt Bonus	$76,000	- provided for 122 boars and 16 gilts
Fox Artificial Insemination	$2,000	- provided to 5 breeders
Equine Genetic Improvement	$75,000	- provided to 4 breed associations.

(In addition, one percent of the wager at Island tracks, or $72,700 is provided to the Atlantic Standardbred Breeders' Association).

- Improved animal health is important if livestock producers are to become more competitive. The Department provides diagnostic services through the Atlantic Veterinary College. This program, with an annual budget of $390,000, changed from a free service to a partial user pay service on November 1, 1990. Other animal health programs provided by the Department are as follows:

- Clinical services	$350,000
- Basic and intensive health management services	$500,000
- Certification of swine minimal disease herds	$15,000

Staff resources are also provided herds for inspection of auction barns and swine slaughter checks.

- The Department makes available to the industry a customized planning and design service for farm structures, building systems, and manure management. During 1990, much attention was directed to potato quality through improved grading and storage facilities and ventilation systems. Farm building and other engineering services were provided to producers of most other commodities, including greenhouses.
- The Department continues to provide the latest information to the industry on farm machinery and operation. To reduce the levels of potato bruising, the timing of over 100 conventional potato harvesters was measured and adjusted. These adjustments also resulted in increased harvester capacity. Efforts to reduce bruise levels also continued with the use of hydraulic harvesters, and

harvester adjustment clinics were held in each of the five agricultural districts. The reduction of bruises in potatoes helps to put a high quality potato on the market and increases the competitiveness of Prince Edward Island in table stock markets.

- Improved feed utilization for livestock producers reduces costs and increases productivity. A number of projects were conducted to evaluate and demonstrate several innovative practices:
  - evaluation of an on-farm bunker silage unloader;
  - evaluation of sweet white lupins in hog rations;
  - demonstrations of increased management levels and rotational practices on pastures;
  - evaluation of on-farm extrusion of soybeans for livestock feed rations;
  - evaluation of high moisture barley storage in plastic silage bags;
  - evaluation of locally produced protein feedstuffs in performance of beef cattle;
  - evaluation of two-row and six-row barley for swine; and
  - beef feedlot management information systems.
- Community pastures provided additional grazing land at five locations across the province. Grants totalling $41,000 were given to five groups involving 150 producers to encourage the further development of community pastures.
- Efforts continued to increase the production and quality of meats. A swine incentive program to encourage on-farm productivity and to increase production to supply the needs of Garden Province Meats was utilized by 400 producers. This program was terminated in September, 1990. The lean beef program provides incentives for producers to implement improved management practices. There were close to 350 individual transactions in the weaning weight program in 1990, involving services such as handling, weaning weights and pre-conditioning.
- Two cost-of-production studies were completed in 1990. The results of fluid milk production costs were provided to the Prince Edward Island Marketing Council, and the cost-of-production of bedding plants was made available to the newly-established Prince Edward Island Greenhouse Products Marketing Board. The information was used to establish pricing policies.

Extension

1990 Extension efforts were focused on strengthening the productivity and competitiveness of individual producers in all commodities and products. The agriculture and food industry was encouraged to aggressively develop and pursue new commercial agri-food enterprises, products and services, as well as, new markets and new systems of production and processing. Entrepreneurship and cooperation among producers, processors, distributors and marketers was promoted in order to address development opportunities.

Crops

- The Department worked closely with producer organizations in 1990 in all crop commodities and assisted their members to organize workshops, tours and special events. Some of the highlights in 1990 included:
  - a cereal production advisory training project for livestock feed producers;
  - summer tours of cereal, forage and soybean projects;
  - tour of dry bean production sites; and
  - lupin field days.

The purpose of cereal extension is to efficiently produce the province's requirements of cereal and protein crops, to supply the requirements of the livestock industry, and reduce dependence on transportation subsidies.

Livestock

- In the livestock sector, highlights included information sessions, courses and tours to enhance production efficiency and livestock management skills. Extension activities included:
  - dairy computer software demonstrations;
  - swine information sessions;
  - beef tours and demonstrations;
  - dairy ration formulation and advanced dairy nutrition workshops;
  - dairy health management barn meetings;
  - a manure management seminar;
  - dairy courses for small and new producers;
  - a beef calf marketing project;
  - the Maritime Pork Conference;
  - the Beef Cow-Calf School;
  - computer assisted rating program in dairy; and
  - a tour of red veal facilities in Quebec.

- The Livestock Breed Association Assistance Program - provides $20,500 to support 18 local breed organizations in the promotion and marketing of local breeding stock. A bred heifer sale was co-sponsored with the Cattlemen's Association in 1990 to increase the availability of commercial-type cattle.
- A horse feeding and management seminar was held and the Department helped to coordinate the activities of Horse Industry Week.

Potatoes

- In the potato sector, a number of major activities were implemented. The first annual Potato School was organized with close to 200 producers in attendance. The Potato Services Division was established in Kensington, and expanded to ensure the latest information relating to the production and processing of potatoes along with machinery and storage technology is delivered to the industry. Other activities included:
  - potato chip workshop;
  - potato storage tour;
  - an organic potato production seminar;
  - an early dying syndrome in potatoes workshop;
  - a European corn borer seminar;
  - a potato bruise detection service; and
  - a course for new producers.
- A number of events were held throughout the province on farm machinery operation and maintenance. In an effort to identify new technology to enhance the competitive position of the industry, a potato growers tour to Holland and England was carried out with 16 producers participating.

Value Added

- A new direction in extension in 1990 was the establishment of a program to encourage entrepreneurial development based on locally produced raw products to add value for specific market niches. One project, "An Island of Opportunities" worked, for example, with edible bean growers who are packaging for retail sales. An Agri-Food Entrepreneurial Development Program was established in the eastern end of the province in cooperation with Community Futures; and an in-depth Entrepreneurial Development course was prepared to be offered in 1991.

Farm Business Management

- Producers in various commodities were assisted in farm management methods and practices, including cash flow projections and business plans to evaluate significant changes in their farm operation. Assistance and training in financial analysis for farmers is an important and vital part of the district farm management program.

Public Information

Information on new developments in agriculture, current trends, markets and other related issues to keep producers and the industry up-to-date is widely available from the Department.

- A newsmagazine, "CornerPost" is distributed monthly, and over 10 commodity-specific newsletters are produced on a regular basis and are available on request.
- More than 600 radio programs produced by the Department are aired yearly, featuring agricultural news and market information. Daily market reports are also available on a toll-free telephone answering service.
- A weekly market summary was produced and distributed. In 1990, information on developments in the major commodities and economic issues affecting the industry was added to the market report and distributed to the weekly newspapers as well as available by mail.
- The Department prepared and distributed press releases, announcements and other information pertinent to agricultural development. These included releases in support of the promotion programs being implemented by commodity organizations.
- A 17-minute video highlighting ALFI technologies was produced and released. The Department also participated in the development and premiere of a soil conservation video. Videos were prepared on a variety of subjects, including potato bruising.
- The Department is becoming increasingly involved in promotion of the soil and water on-farm demonstration program under the National Soil Conservation Program. An awareness program on soil conservation practices was also carried out as part of this agreement.
- The Department produced and distributed fact sheets and other production information.

PRINCE EDWARD ISLAND
CANADA
One of the world's great islands

Market Responsiveness

Growing consumer demand for safe, high quality food and agricultural products, combined with changes in global trading relationships, requires Prince Edward Island to strengthen the marketability of its products. The Department of Agriculture is assisting producers and producer organizations to more aggressively link production to market opportunities and to identify new and expanding markets for Prince Edward Island products.

Business development

The Department recognizes the importance of developing new food processing businesses as one method of increasing revenues to the agri-food industry. Greater attention is being devoted to this work, and important steps have been taken.

- A task force made up of representatives of the Department of Agriculture, the Food Technology Centre and the Prince Edward Island Development Agency is investigating the feasibility of new food business ventures.
- Staff are working more intensively to research business opportunities and to identify private sector partners through extension efforts. A program called "An Island of Opportunities" is aimed at identifying food-related business opportunities which utilize local products.
- A joint project was undertaken with the Food Technology Centre and the Department of Industry, Science and Technology to determine the amount of non-marketable potatoes available for value-added processing.
- Together with existing processors, the feasibility of establishing a poultry processing facility was investigated.
- To increase the level of value-added processing at Garden Province Meats, the feasibility of establishing large-scale commercial hog production units was investigated with the participation of the Development Agency, the Hog Commodity Marketing Board and Garden Province Meats.
- A draft strategic plan for the development of the blueberry industry was prepared. This includes expansion of the fresh-pack trade and the feasibility of small-scale processing, as well as, processing of other small fruits and vegetables. In addition, staff are working with individuals to identify potential blueberry land for development.

Market development and promotion

A variety of projects both for new markets and new products have been undertaken in 1990.

- The Department participated in a range of incoming and outgoing trade missions involving more than 30 nations. Hon. Keith Milligan led a trade mission to Argentina in August to promote exports, particularly seed potatoes. The Minister also led a mission to France, Holland and Germany in October; in France the mission attended the SIAL trade show, the largest show of its kind in the world. The mission identified numerous interesting products for further investigation. The Department also hosted a visit of agricultural attaches representing over 20 nations. The attaches work from their respective embassies in Ottawa.
- Through the Federal-Provincial Market Development Council, which conducts research in areas of common concern, the Department is contributing to a study of speciality foods which are within the province's capacity to produce and which offer opportunities for growth in value-added food products. Additionally, a range of ethnic food products which offer market potential were identified.
- Assistance was provided to the Island Hay and Straw Co-op for development and expansion of domestic and export markets. Through membership in the Atlantic Canada Forage Cooperatives Association, the Co-op hosted a representative from a major Japanese trading house, and this resulted in a trial shipment of Island forage to Japan in 1990.
- Together with a committee of the Canadian Forage Council, a promotional brochure for Canadian forage was developed, published and distributed in seven languages.
- Support was given to organic producers for the establishment of the Abegweit Organic Cooperative. This group was also assisted to explore and develop markets in Canada and the United States. In 1990, there were 10 producers with certified production from more than 400 acres; this acreage represents a 300 percent increase over 1989.
- A market study for dried and scented plant materials is being undertaken with Agriculture Canada.
- A group of strawberry growers was assisted to explore the potential for the sale of fresh strawberries in Scandinavian countries. A 15 percent increase in pick-your-own sales resulted from promotional efforts.
- Staff assisted the Potato Board with its market support program. In-store promotions were conducted in Ontario, Quebec and the Atlantic region. In Boston, a joint potato promotion was undertaken with the Department of Tourism and Parks and Tourism Canada

through radio and print advertisements. As a result, more than 5000 requests for information were received. To maintain and develop markets, the Board was also assisted in attending 10 key trade shows and trade dinners in Toronto, Montreal and Boston. During 1990, about $200,000 was spent on potato promotion.

- Technical assistance and agronomic services were provided to a potato cooperative in Hungary which is producing processed potatoes for McDonald's restaurants. This resulted in shipments of Prince Edward Island seed potatoes to Hungary in 1990. A mission also participated in a trade show in Hungary and investigated opportunities for small-scale processing, storage, handling and other potato technologies.
- Support was provided to Choice Inc., an Island tobacco processing company, to participate in a trade show in China. Progress in this market is expected.
- A project to promote Island products during the peak tourism season was initiated. During Canadian Meat Month, a successful food service promotion was completed with the participation of 10 restaurants and food service establishments.
- Various commodity groups were assisted in an education and promotion project with local retailers to increase sales of commodities including strawberries, raspberries, sheep and lamb, hogs and eggs. Stores participating in the promotions reported sales increases of 15 to 50 percent up to four months after the promotion. The Department also worked with the Atlantic Fresh Produce Association to strengthen contacts and promotions with the retail industry. Point-of-sale materials and a market access directory were developed to link retailers and producers.
- A market pool was established for sweet white lupins with lupin growers and the Grain Elevator Corporation; further marketing support is also being provided.
- The Cole Crop Producer's Cooperative was assisted in planning and contracting the 1990 crop.
- Staff and financial support was provided to the purebred livestock sector to participate in the 1990 Livestock International Show and Sale in Moncton. Twenty-five Island breeders consigned 37 lots for sale. Seventeen Island breeders were also assisted to display and promote their breeding stock at provincial, regional and national exhibitions. The Shorthorn Association was assisted in establishing a Futurity Event at the Provincial Exhibition.
- The Prince Edward Island Lamb Cooperative was assisted in promoting sales and to increase sales in the Montreal market.
- Specialized export promotion services were provided to exporters on request. Requests for services in 1990 involved exports to more than a dozen nations.
- Variety trials to evaluate different Canadian potato varieties were carried out through Potatoes Canada in more than 20 countries. In addition, the Department participates with Potatoes Canada in the operation of the Technical Potato School at the Nova Scotia Agriculture College. A total of $60,000 is contributed to Potatoes Canada in support of these projects.

Market Education

- To complement the market support program of the Potato Board, a number of publications were prepared; these included an Irish recipe brochure, a publication for the institutional market, a recipe brochure and a brochure for the consumer market.
- Support was provided to the Blueberry Growers' Association and the Wild Blueberry Association of North America (WBANA) for a competition for chefs and apprentice chefs. This competition was operated in conjunction with the Culinary Institute of Canada and was aimed at the food service sector. A joint promotion with WBANA was also conducted with Oxford Frozen Foods and Sobey's. A staff person from the Department assisted WBANA at the Canadian Food and Beverage Show in Toronto which attracted 7000 hospitality industry visitors.
- A promotional package on Island agriculture was developed for agricultural fairs. A multi-media display, "An Island of Opportunities", was also developed to encourage local entrepreneurs to use local raw products to add value for specific market niches.
- Support was provided to the Milk Marketing Board to provide nutrition information to specific groups, including those involved in the School Milk Program and through the Heart and Stroke Foundation. An education

kit was also developed in cooperation with the Prince Edward Island Women's Institute.

- The Department supported the School Milk Foundation through staff and financial support of approximately $146,000. Total costs are shared with the Dairy Producer's Association and the Fluid Milk Processors. Ninety-seven percent of Island schools participate in the program and more than 1.2 million servings of milk were consumed with a wholesale value of $332,000. A nutrition education program was also introduced to grade 4 students in 1990.
- Staff and financial support was provided to fairs and exhibitions as a means to promote agriculture and educate visitors about the agriculture and food industry. As a means to promote fairs and exhibitions, the Prince Edward Island Association of Exhibitions was assisted with the production of a video including the highlights of each fair. Support was also provided for standardized judging, evaluation and training for fair management.
- New and expanded market and trade opportunities continue to be identified in a number of nations, particularly Eastern Europe, where contacts are being established. Projects include exports of baker potatoes, small-scale processing, and technology transfer. Proposals for small-scale potato processing in Poland are being developed by an Island business coalition under the sponsorship of the Government of Canada and the World Bank.

Education and Training

Providing producers and agricultural groups and organizations with the required level of information on the latest technology, skills and trends is a continuing and critical need. The Department pursues this objective through training, organizational and financial assistance to agricultural organizations, and rural development initiatives.

- Through the training program of the Department, resource centers operate in each of the 5 District Agricultural Offices. Learning materials and equipment are provided, as is the funding and co-ordination of seminars, conferences, tours, workshops, demonstrations and other events.
- Financial assistance is provided to Islanders to obtain vocational and technical training in agriculture. Under this program, the Nova Scotia Agricultural College is reimbursed for the costs of technical training to Island students; students attending other institutions are reimbursed directly. Nineteen students were assisted during 1990. Seventeen students were enrolled in correspondence courses and their costs of registration were reimbursed upon successful completion of the courses.
- Under the Farm Organization Assistance Program, the Prince Edward Island Federation of Agriculture, the National Farmers Union and Women in Support of Agriculture received grants for projects implemented in 1990. Total funding provided was $48,500. These grants helped organizations become more effective in developing agricultural policies and in educating their members on agricultural policy issues.
- The Provincial Farm Safety Program was contracted to the Federation of Agriculture in 1990 at a cost of $24,000. This Program is directed by an advisory committee of government and industry representatives. Its purpose is to reduce the number of farm accidents in Prince Edward Island.
- The Agricultural Employment Committee, jointly funded by Employment and Immigration Canada and the Department of Agriculture, developed a curriculum for the training of farm workers. The first course is scheduled for early in 1991.
- A program to train and update grain graders was conducted; 7 new graders received certification.

4-H Program

4-H is an out-of-school, educational program for rural youth. Its aims are to encourage in 4-H members an appreciation for the opportunities and skills of farming and rural life; to provide an opportunity to develop social and leadership skills; and to create situations favorable to the development of future leaders in agriculture particularly, and the rural community generally.

The provincial 4-H program is involved in the areas of leadership and personal development, family life, agriculture and public relations. The Prince Edward Island 4-H movement has 1000 members and 350 volunteer leaders throughout the province.

- Under the leadership and personal development program, 40 members and 5 leaders participated in travel programs; 5 4-H scholarships were awarded, and 48 leaders were presented with leadership recognition certificates. A senior member's conference was held for 20 members, a camping program for 180 members and an annual leader's conference for 100 leaders. An award event was held to recognize the contribution of 250 leaders and members. Local, district and provincial communications competitions were conducted for all 4-H members.
- Under the Family Life programs, activities and resources were developed around workshops, home economic competitions and project revisions.
- Livestock workshops and competitions were the highlights of the agriculture program. The provincial 4-H classes involved 400 members, and 600 people participated in the 40th anniversary of the Rural Youth Fair. A number of members also participated in out-of-province livestock competitions. In conjunction with the Atlantic Veterinary College, the 4-H veterinary project continued for senior members. In 1990, a computer project and senior member's Challenge project were developed.
- The public relations program produced 52 weekly 4-H radio programs to inform members, leaders and the public of 4-H programs and activities. A monthly 4-H leaders' newsletter was distributed, along with numerous articles and press releases for the local media.

A list of 4-H award winners is included in the appendix of this annual report.

Women's Institute Program

The Prince Edward Island Department of Agriculture contributed towards W.I. programs in education, promotion and agricultural awareness in 1990. 1990 marked the 75th anniversary of the formation of Women's Institutes on Prince Edward Island. Women's Institutes have been active in promoting a greater understanding and appreciation of social and economic problems, and a recognition of the influence and importance of farmers and the agriculture industry to the province. There were 177 branches with a membership of approximately 2800 members in 1990.

- Educational programs and projects remain the focus of the organization. In 1990, 427 requests on a wide variety of educational topics were received by the program library. An activity book was prepared and distributed for grade 3 students to promote agriculture in the classroom. Projects were developed for the 1991 "From Farm to Table" program, and nutritional information has been distributed in cooperation with the Milk Marketing Board.
- "Preserving the Harvest", which provides food preservation information during the summer and early fall was co-sponsored with the Prince Edward Island Department of Agriculture for its 11th year. The number of requests for information continues to increase annually, with approximately 1200 received in 1990. Information is provided through daily radio programs, weekly and monthly newspaper articles, a toll-free telephone line and through in-store demonstrations and booths at the Summerside Lobster Carnival and Provincial Exhibition.
- Workshops were held in support of the leadership development objectives and 275 members attended the annual provincial conference in June.
- The successful annual roadside cleanup was spearheaded again in 1990. A contest for radio commercials during National Environment Week was co-sponsored with CFCY/Q93.
- Quilting workshops were held at 4 locations across the province. The Food, Handcraft and Art Divisions were sponsored at the Provincial Exhibition, and attracted approximately 1300 entries. Three hundred members volunteered over 1500 hours at the Women's Institute display during this exhibition.

Master Gardener Program

The Master Gardener program successfully completed its seventh year of operation. This program organizes experienced home gardeners who volunteer time to assist the Department with gardening inquiries.

- In 1990, volunteers responded to more than 630 inquiries. Master Gardeners are also active in the community as resource people to groups and the media.

Financial Stability

A major objective of the Department of Agriculture is to assist producers to achieve a greater degree of financial stability in their operations and throughout the industry as a whole. Through improved farm management, up-to-date information on technologies and practices and risk management techniques, the industry is being supported to move to greater self-reliance. Several programs were in place in 1990 to protect producers against low market returns and unstable farm income.

- A major effort in 1990 was directed at the hog industry with its transition from the interim Provincial Stabilization program to the federal-provincial Tripartite Stabilization program and other programs allowable under the 16 percent CAP. Operation of the interim stabilization program was monitored in conjunction with the national program, including release of advance payments to the Hog Commodity Marketing Board to permit monthly payments to the 442 producers enrolled in the program.
- The Department served as the contact for the National Stabilization Plan for beef producers. Participation in this plan increased over the year to reach 150 producers in the slaughter program; an additional 20 producers enrolled in the feeder program bringing the total to 62; and 28 were enrolled in the cow-calf program.
- The Ranched Fur Advance Payment Program advanced $97,000 to ranchers. The funds were allocated on current production and covered the interest costs on the money advanced. Forty-one ranchers participated. Other programs for the industry include the Nucleus Herd Maintenance Program, with expenditures of $157,000 involving 70 ranchers and the Fur Industry Support Program, benefiting 126 ranchers.
- Information was provided to fur breeders in examining the purpose and operation of the tripartite stabilization program and the feasibility of this program for the fur industry. Discussions on a stabilization program for the fur industry will continue in 1991.
- The Department participated in the work of the National Grains and Oilseeds Safety Nets Committee. This Committee proposed the establishment of two new safety net programs for producers. These programs were approved by Ministers of Agriculture and program details were developed for negotiation and implementation. It is expected that the Gross Revenue Insurance Plan (GRIP) will be approved and launched in 1991.
- The Farm Separated Cream Assistance Program contributes 19 cents per kilogram of butterfat to offset part of the transportation cost of farm separated cream to 127 producers. Expenditures under this program were $34,400.
- The Department is also involved in the administration of the tripartite program for sheep producers.
- The Department of Agriculture in 1990 paid the Hog Commodity Marketing Board $32,600 to cover the costs of administering the Hog Tripartite Stabilization Program and the Interim Hog Stabilization Program.

Environmental Sustainability

The Prince Edward Island agriculture and food industry recognizes the importance of and is committed to environmental responsibility, and the protection, preservation and enhancement of its resources. Sustainable growth and development is central to all Departmental activities. Initiatives to reduce input costs, such as crop scouting and integrated pest management, are supported as are initiatives aimed at developing practices and techniques more compatible with the environment and resource base.

- Practical and cost-effective solutions to control soil erosion and prevent soil degradation are being developed and demonstrated under the $1.8 million Canada-Prince Edward Island Agreement on Soil and Water Conservation and Development. Several demonstration projects were initiated in 1990. An applied research project to monitor erosion and fertility losses is being administered by the Department on behalf of Agriculture Canada.
- Support is provided to landowners, contractors and others to improve land utilization and capability. Under the Land Drainage Program of the Canada-Prince Edward Island Cooperation Agreement on Agriculture, $350,000 was spent on 32 projects resulting in direct and indirect improvements to more than 3600 acres of land.
- The Renewable Farm Land Resources Program provided $36,000 in financial support to 8 projects in 1990. These included funding for on-farm research; mussel mud evaluation; composting; and resource people.
- New regulations were developed under the Pesticide Control Act for aerial spraying and other pesticide application methods. Ground and aerial spraying activities were monitored throughout the season, along with storage site inspections and general extension work on the safe use of pesticides. The Department supported, in cooperation with the Potato Producers Association and other departments and organizations, a major province-wide pesticide collection day in 1990.
- Province-wide courses were conducted for producers on the safe handling and use of pesticides. The courses also dealt with proper calibration of equipment. Upwards of 400 producers participated. These courses may lead to the eventual certification of producers so that all those applying pesticides will have been trained in safe handling and application techniques.
- A project was initiated in 1990 to compile an inventory of potentially usable wastes in the province. The information will provide the basis for determining potential uses, including composting.
- A project conducted over the summer successfully converted 300 tons of waste potatoes into usable compost. Future work will include field trials to determine the value of the compost and its commercial viability. It is anticipated that composting may soon replace the current practice of burying culls and this would avoid potential problems in the pollution of groundwater in the province.
- Under the Canada-Prince Edward Island Cooperation Agreement, the Manure Management Program provides advice and financial assistance to livestock producers to demonstrate improved facilities and to minimize environmental effects. In 1990, 10 producers were assisted at a cost of $190,000. The grants represented 50 percent of the total investment.

Planning and Policy Development

The continued success of the agriculture and food industry relies on its success in anticipating and responding to change. The Department has developed a strategic overview to provide a frame of reference for decisions which are consistent with long-range development strategies. A Departmental mission statement has been adopted to provide a focus for policy and program development.

- During 1990, the Department participated in the work of the 11 task forces established by Agriculture Canada to review National Agricultural Policy. The task forces deal with a wide range of subjects, including safety nets, competitiveness, transportation, farm finance and management.
- The 1990 Agriculture Outlook Conference organized by the Department enabled agricultural leaders and farm leaders to meet for an update and discussion of the economic and policy outlook for the year ahead and presented information on which farm planning could be based.
- During 1990, industry Congresses were held to discuss future directions, programs and priorities for the potato, pork and beef commodities. One result of these major Congresses is the development of the ProPork program.
- The Uruguay round of the GATT negotiations dominated much of the discussions of the meetings of the Ministers and Deputy Ministers of Agriculture. The Department was closely involved in the progress of negotiations and assessing their impact on the province's agri-food industry. The Prince Edward Island position supported the need to preserve and strengthen Article XI (concerned with supply management) and requested and negotiated measures to enable the potato industry to increase its penetration of international markets.
- The Federal-Provincial Agricultural Trade Policy Committee met frequently as a result of the GATT negotiations and to draft a memorandum of understanding to reduce inter-provincial trade barriers. Agreement was reached by federal and provincial Ministers of Agriculture. Restrictions on the inter-provincial movement of Canada #1 small grade potatoes is at the top of the list for resolution.
- A federal-provincial committee on agri-food inspection was established in 1990 to implement the Memorandum Of Understanding on Inter-Provincial Trade. The committee is pursuing the objective of increasing the profile of food quality and safety.
- Also in the area of trade issues, information was compiled to determine benefits to red meat producers as a result of provincial programs; to establish pork countervail levels; and to assess the impact of provincial meat inspection and the effect on inter-provincial trade.
- The Department participated in advising on a consultant's study of grain elevators in the Atlantic Region; recommendations for future directions are contained in the report, "Grains 2000".
- The Department co-ordinated and contributed to provincial input to the Federal Pesticide Registration Review. A number of submissions were made from Prince Edward Island.
- The Department co-ordinated activities relating to the $25 million Canada-Prince Edward Island Cooperation Agreement for Agriculture, including the review of projects and reports. More than 200 projects were approved, involving expenditures of approximately $4 million.
- A review of Departmental programs was initiated in 1990 to evaluate programs and activities. A final evaluation of the ALFI program was completed and a review of the final report and its impact of future program planning is currently taking place.
- To better serve the needs of the Department and the industry, a computer plan was prepared and approved. The first phase of the computer network plan was completed in 1990.
- The mid-year statistical summary sheet was released in September. The 23rd edition of Prince Edward Island Agricultural Statistics, covering the 1988-89 period, was published. There has been a sharp increase in the number of requests for statistics and market interpretation.
- There has been ongoing review of research on consumer and market trends. A study was completed on how best to utilize resources for export promotion. A survey of food requirements in the Third World has also been completed, together with opportunities for technology transfer

Natural Products Appeals Tribunal

During 1990 the Appeals Tribunal received three notices of appeals. All of the appeals were in a dairy commodity and all were heard and decisions rendered. The Appeals Tribunal is comprised of:

Wayne Beaton, Chairman
Danny Walker
Isobel Campbell

Department of Agriculture
Financial Statement
Year Ending March 31, 1990

	Expenditure	Revenue (Other than ERDA)
Administration	653,840.26	79.00
Planning and Operations		
Branch Management	109,413.86	
Planning	65,501.11	
Information	156,446.17	
Computer Services	154,814.02	
	483,175.16	
Production Services		
Branch Management	722,249.86	816.85
Lab and Disinfection	1,991,527.16	539.00
Crops and Plant	701,098.32	8,033.00
Engineering and Land Resources	389,313.46	
Dairy Services	1,138,329.29	897.89
Livestock Services	4,058,737.72	34,445.93
Community Pastures	98,841.13	34,252.02
	9,100,096.94	
Marketing and Extension		
Branch Management	201,808.82	
Sustainable Agriculture	881,341.19	13,005.71
Marketing Services	936,515.53	
Hog Stabilization	8,351,614.39	
School Milk Program	98,000.00	
West Prince	163,928.92	
Summerside	213,035.90	
Charlottetown	214,062.78	
Montague	173,294.81	
Souris	125,282.75	
	11,358,885.09	
Appropriate Tech/Offshore	249,040.63	
P.E.I. Marketing Council	2,400,653.30	
Potato Commission	133,152.06	
ALFI		
Administration	256,735.63	
Technology Advancement Initiatives	1,007,599.33	
Technology Evaluation Initiatives	379,941.85	
Technology Adoption (Demo) Initiatives	202,675.66	
Technology Dissemination Initiatives	331,326.53	
Storage, Handling, Marketing Support	273,673.82	
On Farm Storage Handling Initiatives	269,994.00	
Market Organization Support Initiatives	59,131.00	
Human Resource Development	293,319.82	
Livestock Feed Farm Planning Services	791.73	
Technical Evaluation	48,427.25	
Nutrition-Network	7,583.57	
Extension Training Activities	14,167.66	
	3,145,367.85	
Total	**27,524,211.29**	**92,069.40**

1990 4-H Annual Report

Interprovincial Exchange

Nigel Burns, Freetown to Quebec

Mark Craig, North River to Ontario

Karen Johnstone, French River to Newfoundland

Anne MacLaurin, Lot 16 to Alberta

Washington Conference

Karrie Duncan, North River

National 4-H Careers' Conference

Grant Boswall, Dunstaffnage-Marshfield

Linda Docherty, North River

National 4-H Members' Conference

Lori Ann Dollar, Winsloe-Brackley

Cindy MacDonald, Chepstow-Little Harbour

Justin MacLeod, Uigg-Kinross

Melanie MacPherson, Wheatley River

Karen McInnis, North River

Tracy Trainor, Fort Augustus

Chaperone: John Colwill

Citizenship Seminar

Randy Dingwell, Morell

Chris Gunn, Fort Augustus

Karen MacDonald, Winsloe-Brackley

Julie Stewart, North River

Sandra Stewart, Dunstaffnage-Marshfield

Lori Ann Walsh, St. Ann's

Chaperone: Sandra MacKinnon, Dept. of Agriculture

Canadian National Exhibition Scholarship Recipient

Jane MacLaurin, Lot 16

Petro Canada 4-H Leadership Award Recipient

Rachael Cheverie, East End Circle

Atlantic 4-H Communication Competition

Junior Public Speaking:	Colin Peters Chepstow-Little Harbour
Senior Public Speaking:	Kelly Dawn Williams Elmsdale
Single Demonstration:	Mindy Oulton Uigg-Kinross
Double Demonstration:	Julie MacPhee & Angie MacLaurin Seaside

P.E.I. 4-H Council Scholarship

Billie Jo Davis, Lower Montague

P.E.I. Junior Farmer Ontario Exchange

Scott Drake, Vernon

Manitoba Rural Youth Organization Annual Meeting and Conference

Mark Craig, North River

National 4-H Leaders' Conference

Penny Frizzell, Pleasant Valley

Marie Mossey, Eastern Clovers

Gail Wallace, Elmsdale

Louise Weeks, Pleasant Valley

Most Improved Club of the Year -

Souris West

J. T. Driscoll Memorial Award for Community Project -

Dunstaffnage-Marshfield

Friend of 4-H Award -

Island Fertilizers Ltd.

Stewart Wright Memorial Scholarship

(Madison Dairy Conference) - Bloyce Thompson, Dunstaffnage-Marshfield; and Derwin Clow, Freetown

4-H Leadership Certificates:

Five Year Certificates . . .

Corinne Bernard	Evangeline
Linda Boswell	Dunstaffnage-Marshfield
Betty Cameron	St. Anns
Victor MacLeod	Bayview-Orwell
Bill Matheson	Brooklyn-Heatherdale
Ken Mellish	Summerville
Marie Campbell	Seaside
Gloria Chapman	Chepstow-Little Harbour
Betty Duffy	Village Green
Jeanette Farrell	Evangeline
Teresa Mellish	Summerville
Jim Mills	Little Pond

Joan Murray	Lot 16
Stewart Mutch	Cherrycliffe
Penny Frizzell	Pleasant Valley
Cathy Gallant	Cavendish
Helena Hamill	Albany
Bob Hughes	Morell
Woodland Pauptit	Sherbrooke
Garnet Schellen	Millview-Vernon River
Frances Stewart	East End Circle
Heather Thompson	Dunstaffnage-Marshfield
Gail MacDonald	Sherbrooke
John MacDonald	Sherbrooke
Allistair MacIntosh	North River
Claire MacLaren	Seaside
Edith MacLean	Lot 16
Marie Walsh	Summerville
Louise Weeks	Pleasant Valley
Lynda Weeks	Pleasant Valley
George Williams	Elmsdale
Bruce Wood	Dunstaffnage-Marshfield

Ten Year Certificates . . .

Alex Dixon	North River
Melvin Ling	Wheatley River
Ann MacDonald	Chepstow-Little Harbour
Marion Murphy	St. Anns
Carol Weeks	Pleasant Valley
Sidney Watts	Brooklyn-Heatherdale
Georgina MacDonald	Lot 18
Carol MacLeod	Brooklyn-Heatherdale
Robert Wood	Mermaid-Mt. Herbert
David Younker	North River

Fifteen Year Certificates . . .

Alan Godfrey	Dunstaffnage-Marshfield
Donna Thompson	Dunstaffnage-Marshfield
Stewart MacRae	Wheatley River

Twenty Year Certificates . . .

Lorraine Noonan	Albany
Helen Roberts	Wheatley River

Twenty-Five Year Certificates . . .

Reta Ling	Wheatley River

Royal Winter Fair 4-H Hays Classic - November 1990

Gilles Bernard, Evangeline 4-H Club
David Dickieson, Cavendish 4-H Club
Susan Dickieson, Cavendish 4-H Club
Mat Hogan, Millview-Vernon River 4-H Club
Sandra Stewart, Dunstaffnage-Marshfield 4-H Club
Marlene Weeks, Pleasant Valley 4-H Club

Royal Winter Fair National 4-H Beef Heifer Show

November 1990

Sherri Dixon, North River
Tim Dixon, North River
Dennis Docherty, North River
Paul Godfrey, North River
Wade Loane, Brooklyn-Heatherdale
Anne MacLaurin, Lot 16
Julie Stewart, North River
Tracey Stewart, North River
Amy Thompson, Dunstaffnage-Marshfield
Marilee Warren, Elmsdale